

March 11th ?

Work Order ID 142146

142146

Monday, February 29, 2016 3:06:52 PM

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Cable Cutter System
Start Date: 2/29/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 3/18/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference: 3/30/16

Approvals: Process Plan: mf. Date: 16-2-29 Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

16/3/31

MAR 29 2016

16/3/31

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 142146

142146

Page 2

Monday, February 29, 2016 3:06:52 PM

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
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Item Name: AS350 Cable Cutter System
Start Date: 2/29/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 3/18/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00				DAS 27 9-89		DAS 28 9-89	MAR 3 1 2016
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: 								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

mf
16-3-31

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, February 29, 2016 3:06:50 PM

Page 1

Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646 3301* Upper Cutter Assy		Manufactured	No			110	Each	0.0000	1	1			68-6 9 SVD
646.3001 *646 3001* Lower Cutter Assy		Manufactured	No			110	Each	0.0000	1	1			68-6 9 SVD
646.2910 *646 2910* Deflector		Manufactured	No			110	Each	5.0000	1	1			68-6 9 SVD
Location Loc Qty Loc Code													
CCK050 5													
140085 5													
646.3810 *646 3810* Bracket		Manufactured	No			110	Each	6.0000	2	2			68-6 9 SVD
Location Loc Qty Loc Code													
cck105 6													
140151 6													
646.3510 *646 3510* Strut		Manufactured	No			110	Each	4.0000	1	1			68-6 9 SVD
Location Loc Qty Loc Code													
cck104 4													
140061 4													

DAS
27
9-59

MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3511
646 3511
Strut

Manufactured No

110 Each 3.0000

1 1

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

3

140125

3

647.0112
647 0112
Strut Bracket

Manufactured No

110 Each 9.0000

2 2

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

9

M130388

9

647.7703
647 770.3
Strut Assembly

Manufactured No

110 Each 16.0000

2 2

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK114

16

140786

16

NAS1149F0332P
NAS1149F0332P
Washer

Purchased No

110 Each 2,846.000

138 138

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

384

m133709

384

ST262

2462

m134134

962

m134257

1500

MAR 30 2016

Monday, February 29, 2016 3:06:50 PM

Shop Packet Print

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WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased No

110 Each

3,118.000

61

61

DAS
6
3-09

MS21042L3

Nut

Location

Loc Qty

Loc Code

FP001

163

m133790

163

GA

130

m133790

130

OVER007

2000

m134360

2000

ST304

825

m134039

825

646.3110

Manufactured No

110 Each

6.0000

1

1

DAS
6
3-09

646.3110

Channel

Location

Loc Qty

Loc Code

cck020

6

140111

6

646.3710

Manufactured No

110 Each

27.0000

1

1

DAS
6
3-09

646.3710

Doubler

Location

Loc Qty

Loc Code

CCK002

27

140753

27

646.3210

Manufactured No

110 Each

0.0000

1

1

DAS
6
3-09

646.3210

Support

Monday, February 29, 2016 3:06:50 PM

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MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

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Page 4

Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3713
6463713
Gusset

Manufactured No

110 Each

26.0000

1
**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck105

1

138216

1

CCK108A

25

140084

25

MS24694-S51

Purchased

No

110

Each

163.0000

5
**

DAS
6
9-89

MS24694-S51
Screw

Location

Loc Qty

Loc Code

ST284

163

m133990

163

AN3-13A

Purchased

No

110

Each

70.0000

1
**

DAS
6
9-89

AN3-13A
Bolt

Location

Loc Qty

Loc Code

GA

20

m127070

20

ST349

50

m134365

50

AN3-4A

Purchased

No

110

Each

143.0000

10
**

DAS
6
9-89

AN3-4A
Bolt

Location

Loc Qty

Loc Code

ST350

143

m133990

143

DAS
27
9-89

MAR 30 2016

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Page 4

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WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3

Purchased

No

110

Each

254.0000

14

14

CR3213-5-3

Cherry Rivet

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK06

200

m134142

200

ST319

54

m132763

54

110

Each

974.0000

8

8

MS20470AD5-5.5

Purchased

No

MS20470AD5-5 5

Rivet

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST309

974

m134063

974

110

Each

9.0000

1

1

646.3711

Manufactured

No

646 3711

Clip

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck105

9

120626

9

110

Each

23.0000

1

1

646.3712

Manufactured

No

646 3712

Clip

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck105

23

120630

1

140787

22

DAS
27
9-89

Mar. 30 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3811
646 3811
Radius Block

Manufactured No

110 Each 15.0000

1

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK106

15

140895

15

AN3-6A
AN3-6A
Bolt

Purchased No

110 Each 327.0000

2

**

DAS
6
9-89

Location

Loc Qty

Loc Code

over003

175

M134055

175

ST349

152

M133561

27

M133932

125

MS24694-S55
MS24694-S55
Screw

Purchased No

110 Each 104.0000

3

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST283

104

m132803

4

m133988

83

m134129

17

646.3610
646 3610
Filler

Manufactured No

110 Each 4.0000

1

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck104

4

140240

4

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date :	Step #:	QTY Effective :	MRB (QSI042) Approval			
Description Work Order Deviation		Disposition			Completed By	
					Lead hand / Supervisor Approval Verification	
					QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY				
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : ☐						

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3714 Manufactured No

110 Each 13.0000 1 1

6463714

Gusset

**

DAS
6
9-09

Location

Loc Qty

Loc Code

cck105

13

140048

13

MS20470AD5-6

Purchased No

110 Each 864.0000 8 8

MS20470AD5-6

RIVET

**

DAS
6
9-09

Location

Loc Qty

Loc Code

ST309

864

124089

864

646.3812

Manufactured No

110 Each 7.0000 2 2

6463812

Gusset Bracket

**

DAS
6
9-09

Location

Loc Qty

Loc Code

CCK106

7

140058

7

AN3-3A

Purchased No

110 Each 220.0000 4 4

AN3-3A

Bolt

**

mt.

Location

Loc Qty

Loc Code

ST350

220

m134034

20

m134294

200

DAS
27
9-09

DAS
6
9-09

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

110 Each 6.0000 1 1

646.3813

Strut Bracket

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK106

6

127453

1

140119

5

MS20470AD5-7 Purchased No

110 Each 470.0000 3 3

MS20470AD5-7

Rivet

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST309

470

123425

470

MS21047-3 Purchased No

110 Each 185.0000 18 18

MS21047-3

Nut Plate

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST301

185

m134166

185

CCR264SS3-02 Purchased No

110 Each 406.0000 36 36

CCR264SS3-02

Rivet, Cherry

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST321

406

M134134

406

MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A
AN3-5A
Bolt

Purchased No

110 Each 174.0000 2 2

**

DAS
6
9-89

Location	Loc Qty	Loc Code
FP001	6	
m133686	6	
GA	34	
m133686	34	
ST350	134	
m133686	14	
m134055	120	

mf

DAS
6
9-89

646.3715
646.3715
Strut Doubler

Manufactured No

110 Each 17.0000 2 2

**

Location	Loc Qty	Loc Code
cck105	17	
138365	16	
139892	1	

2

mf

MS27039-1-12
MS27039-1-12
Screw

Purchased No

110 Each 163.0000 6 6

**

Location	Loc Qty	Loc Code
over006	50	
m134294	50	
ST280	113	
m133483	13	
m133988	100	

mf

DAS
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3716 Manufactured No

110 Each 39.0000

646 3716

Gauge Bracket

1
**

1

DAS
6
9-09

Location

Loc Qty

Loc Code

cck105

39

140845

39

MS20426AD5-7

Purchased No

110 Each 1,009.000

MS20426AD5-7

RIVET

2
**

2

DAS
6
9-09

Location

Loc Qty

Loc Code

ST311

1009

M133922

1009

MS24694-S54

Purchased No

110 Each 20.0000

MS24694-S54

SCREW

2
**

2

DAS
6
9-09

Location

Loc Qty

Loc Code

ST284

20

m134063

20

MS27039-1-21

Purchased No

110 Each 317.0000

MS27039-1-21

Screw

4
**

4

DAS
6
9-09

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

76

m127904

76

LAS
27
9-09

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-20

Purchased

No

110

Each

142.0000

2 2

MS27039-1-20

Screw

**

DAS
6
8-89

Location

Loc Qty

Loc Code

ST280

142

124326

142

MS27039-1-19

Purchased

No

110

Each

219.0000

22 22

MS27039-1-19

Screw

**

DAS
6
8-89

Location

Loc Qty

Loc Code

over006

150

m134134

150

ST280

69

m134055

69

646.3717

Manufactured

No

110

Each

10.0000

1 1

646.3717

Doubler

**

DAS
6
8-89

Location

Loc Qty

Loc Code

cck105

10

138175

10

646.3718

Manufactured

No

110

Each

25.0000

2 2

646.3718

Custom Washer

**

DAS
6
8-89

Location

Loc Qty

Loc Code

cck105

25

140788

25

DAS
6
8-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
☐ OTHER : _____					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3719
646 3719
Doubler

Manufactured No

110 Each 27.0000 2 2

**

Location

Loc Qty

Loc Code

cck105

27

138311

26

139893

1

Purchased No

110 Each 172.0000 2 2

**

MS27039-1-10

MS27039-1-10
SCREW

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

81

m134166

81

Purchased No

110 Each 191.0000 10 10

**

AN3-11A

AN3-11A
Bolt

Location

Loc Qty

Loc Code

ST349

191

m134167

191

DAS
6
9-89

DAS
6
9-89

DAS
6
9-89

MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____																							
Misidentified ☐	Past Due ☐																								

Picklist Print

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

600.0990 Purchased No

110 Each

33.0000

1 1

600 0990

Magnabond 6398 Part A

11/20/2016

DAS
27
9-09

Location

Loc Qty

Loc Code

CA002

12

M134167

12

CA2

12

M134249

12

PKG

9

M133800

9

600.0991 Purchased No

110 Each

33.0000

1 1

600 0991

MAGNOBOND 6398 PART B

11/20/2016

DAS
27
9-09

Location

Loc Qty

Loc Code

CA002

12

m134167

12

CA2

12

m134249

12

PKG

9

m133800

9

600.1012 Purchased No

110 Each

25.0000

1 1

600 1012

Sealant PR1425B2 (#654 sem)

5N

DAS
27
9-09

Location

Loc Qty

Loc Code

cck017

24

m133938

1

m133992

3

m134167

12

m134249

8

cck018

1

m131364

1

10/30/2015

AVAIL.

Item
PR1425B2-60Z
Batch
7364136881
Shelf Life Expires
09/01/2016

MAR 30 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

600.0129 Purchased No

110 f 397.0000 8 8

600 0129

VHB TAPE 75935A651

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK095

397

m127920

205

m131311

192

600.1013 Purchased No

110 Each 785.0000 5 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK095

785

m131145

785

646.3910 Manufactured No

110 Each 65.0000 4 4

646 3910

Shim

**

DAS
6
9-89

Location

Loc Qty

Loc Code

CCK106

65

136478

1

140772

64

646.3911 Manufactured No

110 Each 49.0000 1 1

646 3911

Shim

**

DAS
6
9-89

Location

Loc Qty

Loc Code

cck104

11

126229

11

CCK106

38

126059

38

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Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

646.3912
646 3912
Shim

Manufactured No

110 Each 72.0000 4 4

**

Location

Loc Qty

Loc Code

CCK106

1

124501

1

CCK108A

71

140238

71

110 Each 88.0000 1 1

**

646.3913
646 3913
Shim

Manufactured No

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

7

124108

7

110 Each 156.0000 2 2

**

AN3-12A
AN3-12A
Bolt

Purchased No

Location

Loc Qty

Loc Code

GA

2

m129682

2

over003

100

m134257

100

ST349

54

m133064

16

m133234

38

MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-16

Purchased

No

110

Each

198.0000

24

24

MS27039-1-16

Screw

**

DAS

8

9-89

Location

Loc Qty

Loc Code

over006

50

m134294

50

ST2820

148

m134142

148

NAS1149F0363P

Purchased

No

110

Each

410.0000

2

2

NAS1149F0363P

WASHER

**

DAS

8

9-89

Location

Loc Qty

Loc Code

ST262

410

124555

410

650.9201

Manufactured

No

110

Each

13.0000

2

2

650.9201

Eyelet Bracket Assembly

**

DAS

8

9-89

Location

Loc Qty

Loc Code

cck127

13

140179

13

AN44-5A

Purchased

No

110

Each

25.0000

2

2

AN44-5A

Eyebolt

**

DAS

8

9-89

Location

Loc Qty

Loc Code

ST339

25

m133990

2

m134134

23

DAS

27

9-89

MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				
Misidentified ☐	Past Due ☐					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

110

Each

45.0000

2

AN665-34R

Clevis

**

2

Location

Loc Qty

Loc Code

OVER007

25

M134202

25

ST330

20

M134029

10

st330

10

AN4C7A

Purchased

No

110

Each

80.0000

2

AN4C7A

BOLT

**

2

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST345

60

m133790

14

m133990

46

NAS1149F0432P

Purchased

No

110

Each

1,059.000

4

NAS1149F0432P

WASHER

**

4

Location

Loc Qty

Loc Code

ST262

938

M133990

938

st268

121

M132677

121

DAS
27
9-9

MAR 3 0 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 142146

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

142146
646 4001

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

2,239.000

2

2

MS21042L 4

Locknut

**

DAS
6
9-89

Location

Loc Qty

Loc Code

FP001

37

m133363

37

GA

456

m133769

456

ST007

1500

m134055

1500

ST303

149

m133769

149

ST305

97

m130922

97

mf

2

DAS
27
9-89

AN316C4R

Purchased

No

110

Each

53.0000

2

2

AN316C4R

NUT

**

DAS
6
9-89

Location

Loc Qty

Loc Code

ST331

53

m133234

43

m133523

10

mf

2

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

2

2

MS21042-3

Nut / use MS21042L3

**

DAS
6
9-89

m134039

Location

Loc Qty

Loc Code

ST304

18

M129682

18

mf

DAS
27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

110

Each

256.0000

2 2

DAS
6
9-89

MS27039-08-13

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

256

124326

256

110

Each

33.0000

2 2

mf

MS21042-08

MS21042L08

Purchased

No

MS21042-08

USE MS21042L08

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

110

Each

3,701.000

4 4

DAS
6
9-89

mf

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

1361

M133316

16

M133769

1345

ST260a

1200

M134257

1200

ST262

1140

M133709

1140

DAS
27
9-89

DAS
6
9-89

MAR 30 2016

mf

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

Picklist Print

Monday, February 29, 2016 3:06:51 PM

Page 20

Work Order ID: 142146

142146

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 2/29/2016

Required Date: 3/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS24693-C278

Purchased

No

110

Each

30.0000

5

5

MS24693-C278

Screw

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST287

30

m133998

10

m134257

20

110

Each

0.0000

1

1

646.9410

Manufactured

No

646.9410

Shim

OK to
ship without
RF
16-3-31

MAR 30 2016

MAR 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
		OTHER : _____							

REFERENCE ONLY

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NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
2. INSTALL F/N 14 WITH F/N 52 & 53.
3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.
4. 3M TAPE PRIMER 94. APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200 24216.
5. REUSE FASTENERS FROM F/N 1.
6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

5	5	5	78	601.2875	SCREW	MS2039-1-10
1	1	1	27	646.3410	SHIM	MS2039-1-10
	4	4	76	601.2764	WASHER	MS2039-1-10
	2	2	75	601.2978	LOCKNUT	MS2039-1-10
	2	2	74	601.2988	SCREW	MS2039-1-10
	2	2	73	601.2943	LOCKNUT	MS2039-1-10
	2	2	72	601.3128	NUT	MS2039-1-10
	2	2	71	601.3209	LOCKNUT	MS2039-1-10
	4	4	70	601.2638	WASHER	MS2039-1-10
	2	2	69	601.2669	BOLT	MS2039-1-10
	2	2	68	601.3189	CLEVIS	MS2039-1-10
	2	2	67	601.3121	EYE BOLT	MS2039-1-10
	2	2	66	650.9201	EYE BRACKET ASSY	MS2039-1-10
REF	REF	REF	65	647.5701	GPS MOUNT KIT	MS2039-1-10
	2	2	44	601.3161	WASHER	MS2039-1-10
	2	2	63	601.2291	SCREW	MS2039-1-10
	24	24	62	601.2637	SCREW	MS2039-1-10
2	2	2	61	601.2763	BOLT	MS2039-1-10
	1	1	60	646.3913	SHIM	MS2039-1-10
	4	4	59	646.3912	SHIM	MS2039-1-10
	1	1	58	646.3911	SHIM	MS2039-1-10
	4	4	57	646.3910	SHIM	MS2039-1-10
	5	5	56	600.1013	PRIMER	MS2039-1-10
	8 FT	8 FT	55	600.0129	VHB TAPE	MS2039-1-10
	1	1	54	600.1012	SEALANT	MS2039-1-10
	1	1	53	600.0591	MAGNETIC BOND 6098 PART B	MS2039-1-10
	1	1	52	600.0590	MAGNETIC BOND 6098 PART A	MS2039-1-10
6	10	10	51	601.2826	BOLT	MS2039-1-10
	2	2	50	646.3874	WIPER BRACKET	MS2039-1-10
		2	49	601.2910	SCREW	MS2039-1-10
	2	2	48	601.1345	SCREW	MS2039-1-10
	2	2	47	646.3219	DOUBLER	MS2039-1-10
	2	2	46	646.3218	CUSTOM WASHER	MS2039-1-10
	1	1	45	646.3317	DOUBLER	MS2039-1-10
	22	22	44	601.1948	SCREW	MS2039-1-10
	2	2	43	601.1952	SCREW	MS2039-1-10
	4	4	42	601.1956	SCREW	MS2039-1-10
4006	4003	4004	4002	4001	4000	4005
REF	REF	REF	REF	REF	REF	REF
5	5	5	78	601.2875	SCREW	MS2039-1-10
1	1	1	27	646.3410	SHIM	MS2039-1-10
	4	4	76	601.2764	WASHER	MS2039-1-10
	2	2	75	601.2978	LOCKNUT	MS2039-1-10
	2	2	74	601.2988	SCREW	MS2039-1-10
	2	2	73	601.2943	LOCKNUT	MS2039-1-10
	2	2	72	601.3128	NUT	MS2039-1-10
	2	2	71	601.3209	LOCKNUT	MS2039-1-10
	4	4	70	601.2638	WASHER	MS2039-1-10
	2	2	69	601.2669	BOLT	MS2039-1-10
	2	2	68	601.3189	CLEVIS	MS2039-1-10
	2	2	67	601.3121	EYE BOLT	MS2039-1-10
	2	2	66	650.9201	EYE BRACKET ASSY	MS2039-1-10
REF	REF	REF	65	647.5701	GPS MOUNT KIT	MS2039-1-10
	2	2	44	601.3161	WASHER	MS2039-1-10
	2	2	63	601.2291	SCREW	MS2039-1-10
	24	24	62	601.2637	SCREW	MS2039-1-10
2	2	2	61	601.2763	BOLT	MS2039-1-10
	1	1	60	646.3913	SHIM	MS2039-1-10
	4	4	59	646.3912	SHIM	MS2039-1-10
	1	1	58	646.3911	SHIM	MS2039-1-10
	4	4	57	646.3910	SHIM	MS2039-1-10
	5	5	56	600.1013	PRIMER	MS2039-1-10
	8 FT	8 FT	55	600.0129	VHB TAPE	MS2039-1-10
	1	1	54	600.1012	SEALANT	MS2039-1-10
	1	1	53	600.0591	MAGNETIC BOND 6098 PART B	MS2039-1-10
	1	1	52	600.0590	MAGNETIC BOND 6098 PART A	MS2039-1-10
6	10	10	51	601.2826	BOLT	MS2039-1-10
	2	2	50	646.3874	WIPER BRACKET	MS2039-1-10
		2	49	601.2910	SCREW	MS2039-1-10
	2	2	48	601.1345	SCREW	MS2039-1-10
	2	2	47	646.3219	DOUBLER	MS2039-1-10
	2	2	46	646.3218	CUSTOM WASHER	MS2039-1-10
	1	1	45	646.3317	DOUBLER	MS2039-1-10
	22	22	44	601.1948	SCREW	MS2039-1-10
	2	2	43	601.1952	SCREW	MS2039-1-10
	4	4	42	601.1956	SCREW	MS2039-1-10
4006	4003	4004	4002	4001	4000	4005
REF	REF	REF	REF	REF	REF	REF
5	5	5	78	601.2875	SCREW	MS2039-1-10
1	1	1	27	646.3410	SHIM	MS2039-1-10
	4	4	76	601.2764	WASHER	MS2039-1-10
	2	2	75	601.2978	LOCKNUT	MS2039-1-10
	2	2	74	601.2988	SCREW	MS2039-1-10
	2	2	73	601.2943	LOCKNUT	MS2039-1-10
	2	2	72	601.3128	NUT	MS2039-1-10
	2	2	71	601.3209	LOCKNUT	MS2039-1-10
	4	4	70	601.2638	WASHER	MS2039-1-10
	2	2	69	601.2669	BOLT	MS2039-1-10
	2	2	68	601.3189	CLEVIS	MS2039-1-10
	2	2	67	601.3121	EYE BOLT	MS2039-1-10
	2	2	66	650.9201	EYE BRACKET ASSY	MS2039-1-10
REF	REF	REF	65	647.5701	GPS MOUNT KIT	MS2039-1-10
	2	2	44	601.3161	WASHER	MS2039-1-10
	2	2	63	601.2291	SCREW	MS2039-1-10
	24	24	62	601.2637	SCREW	MS2039-1-10
2	2	2	61	601.2763	BOLT	MS2039-1-10
	1	1	60	646.3913	SHIM	MS2039-1-10
	4	4	59	646.3912	SHIM	MS2039-1-10
	1	1	58	646.3911	SHIM	MS2039-1-10
	4	4	57	646.3910	SHIM	MS2039-1-10
	5	5	56	600.1013	PRIMER	MS2039-1-10
	8 FT	8 FT	55	600.0129	VHB TAPE	MS2039-1-10
	1	1	54	600.1012	SEALANT	MS2039-1-10
	1	1	53	600.0591	MAGNETIC BOND 6098 PART B	MS2039-1-10
	1	1	52	600.0590	MAGNETIC BOND 6098 PART A	MS2039-1-10
6	10	10	51	601.2826	BOLT	MS2039-1-10
	2	2	50	646.3874	WIPER BRACKET	MS2039-1-10
		2	49	601.2910	SCREW	MS2039-1-10
	2	2	48	601.1345	SCREW	MS2039-1-10
	2	2	47	646.3219	DOUBLER	MS2039-1-10
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	1	1	45	646.3317	DOUBLER	MS2039-1-10
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	4	4	42	601.1956	SCREW	MS2039-1-10
4006	4003	4004	4002	4001	4000	4005
REF	REF	REF	REF	REF	REF	REF
5	5	5	78	601.2875	SCREW	MS2039-1-10
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	4	4	76	601.2764	WASHER	MS2039-1-10
	2	2	75	601.2978	LOCKNUT	MS2039-1-10
	2	2	74	601.2988	SCREW	MS2039-1-10
	2	2	73	601.2943	LOCKNUT	MS2039-1-10
	2	2	72	601.3128	NUT	MS2039-1-10
	2	2	71	601.3209	LOCKNUT	MS2039-1-10
	4	4	70	601.2638	WASHER	MS2039-1-10
	2	2	69	601.2669	BOLT	MS2039-1-10
	2	2	68	601.3189	CLEVIS	MS2039-1-10
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	1	1	58	646.3911	SHIM	MS2039-1-10
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	1	1	58	646.3911	SHIM	MS2039-1-10
	4	4	57	646.3910	SHIM	MS2039-1-10
	5	5	56	600.1013	PRIMER	MS2039-1-10
	8 FT	8 FT	55	600.0129	VHB TAPE	MS